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March 18, 1999 ✓

**Title of Invention:** Image Processing Apparatus, Electronic Game Apparatus, and Storage Medium for a Video Game Device

**Applicants For DO/EO/US:** Yuu SUZUKI; Hideaki MIYAGUSHI ✓

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.
3. ☐ This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).
4. ☐ A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
  - a. ☐ is transmitted herewith (required only if not transmitted by the International Bureau).
  - b. ☒ has been transmitted by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☒ A translation of the International Application into English (35 U.S.C. 371(c)(2)).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)).
  - a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau).
  - b. ☐ have been transmitted by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☒ have not been made and will not be made.
8. ☐ A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

**Items 11. to 16. below concern other document(s) or information included:**

11. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☐ A FIRST preliminary amendment.
14. ☐ A SECOND or SUBSEQUENT preliminary amendment.
15. ☐ A substitute specification.
16. ☐ A change of power of attorney and/or address letter.
16. ☒ Other items or information:
  - a. ☒ Cover Sheet of WIPO International Publication No. WO00/54861
  - b. ☐ Copy of Notification of Missing Requirements.

17. [X] The following fees are submitted:

	CALCULATIONS																
<b>Basic National Fee (37 CFR 1.492(a)(1)-(5)):</b>																	
Search Report has been prepared by the EPO or JPO.....	\$860.00																
International preliminary examination fee paid to USPTO (37 CFR 1.482).....	\$690.00																
No international preliminary examination fee paid to USPTO (37 CFR 1.482) but international search fee paid to USPTO (37 CFR 1.445(a)(2)).....	\$760.00																
Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO.....	\$1,000.00																
International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(1)-(4).....	\$ 100.00																
<b>ENTER APPROPRIATE BASIC FEE AMOUNT</b>	<b>= \$860.00</b>																
Surcharge of \$130.00 for furnishing the oath or declaration later than [ ] 20 [ ] 30 months from the earliest claimed priority date (37 CFR 1.492(e)).	\$																
<table border="1"><thead><tr><th>Claims</th><th>Number Filed</th><th>Number Extra</th><th>Rate</th></tr></thead><tbody><tr><td>Total Claims</td><td>10-20=</td><td></td><td>X \$18.00</td></tr><tr><td>Independent Claims</td><td>1- 3=</td><td></td><td>X \$80.00</td></tr><tr><td>Multiple dependent claim(s) (if applicable)</td><td></td><td></td><td>+\$270.00</td></tr></tbody></table>	Claims	Number Filed	Number Extra	Rate	Total Claims	10-20=		X \$18.00	Independent Claims	1- 3=		X \$80.00	Multiple dependent claim(s) (if applicable)			+\$270.00	\$270.00
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Total Claims	10-20=		X \$18.00														
Independent Claims	1- 3=		X \$80.00														
Multiple dependent claim(s) (if applicable)			+\$270.00														
<b>TOTAL OF ABOVE CALCULATIONS</b>	<b>= \$1130.00</b>																
Reduction by 1/2 for filing by small entity, if applicable.	\$																
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Processing fee of \$130.00 for furnishing the English translation later than [ ] 20 [ ] 30 months from the earliest claimed priority date (37 CFR 1.492(f)).	\$																
<b>TOTAL NATIONAL FEE</b>	<b>= \$1130.00</b>																
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31).	\$40.00 per property + \$																
<b>TOTAL FEES ENCLOSED</b>	<b>= \$1130.00</b>																
	Amount to be refunded \$																
	charged \$																

a. [X] A check in the amount of \$ 1130.000 to cover the above fees is enclosed.

b. [ ] Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_ to cover the above fees. A duplicate copy of this sheet is enclosed.

c. [X] The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 06-0916. A duplicate copy of this sheet is enclosed.

The Commissioner is hereby authorized to charge any other fees due under 37 C.F.R. §1.16 or §1.17 during the pendency of this application to our Deposit Account No. 06-0916.

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## DESCRIPTION

IMAGE PROCESSING APPARATUS, ELECTRONIC GAME APPARATUS, AND  
STORAGE MEDIUM FOR A VIDEO GAME DEVICE

5

TECHNICAL FIELD

The present invention relates to an image processing  
apparatus, and more particularly to an image processing  
apparatus for executing programs for video-game apparatuses.

BACKGROUND ART

In recent years, many simulation games have been  
provided as the game programs for game apparatuses,  
particularly home video game devices. The simulation games  
have the object of allowing [a player] to compete with other  
people or the computer, while experiencing action games such  
as hand-to-hand fight with characters appearing in the game,  
and vehicle racing. Especially in simulation games for hand-  
to-hand fight, the player can operate a plurality of keys  
established on the controller in order to provide operating  
signals to the game device and control the behavior of a  
character such as a person engaging in hand-to-hand fight.

Characters such as people have diverse behaviors, and the player can provide specific combat techniques to the displayed object engaged in the game by combining the operations of a plurality of keys. Normally, because the specific key operations require training, existing simulation games include a scene for training in key operations, called "practice mode". The player can enter this mode during or before the start of the action game as he or she desires.

In this practice mode, the type of keys to be operated and the order in which they are operated or pressed are displayed on the screen in a window format. By pressing the keys in the order indicated, the player causes the displayed object, such as a character, to use the corresponding special techniques. When the key operations corresponding to the key operations indicated cannot be made, the displayed object cannot use the special techniques that are the object. The player can practice the key operations until the displayed object can use these techniques.

After a certain amount of practice, the player exits this practice mode and can begin or return to the scene of the action game.

Also, games that develop along a specific story line, called role-playing games, also employ the elements of a

simulation game. In these types of games, this simulation mode emerges as the story develops. In these types of games as well, a player can enter practice mode and practice key operations for these special techniques.

5        When these game programs reach a simulation portion, such as a hand-to-hand fight or competition, as the story is developing, the progress of the story is stopped until the simulation scene is finished.

10        Here, this story may be considered to be a scenario that is developed under a specific concept, such as a novel.

15        The image processing apparatuses for these conventional games have the following problems. The mode of key operations for a displayed object to use special techniques is displayed in the form of symbols for the keys to be operated and the order [of operation] on the game screen, as discussed above.

      However, it is not easy to convey that the player remember this arrangement of the symbols after completing the practice mode.

20        Also, in the role-playing games discussed above, the player must enter practice mode and become accustomed to the key operations to a certain extent, but this may cause stress to the player or cause the player to lose interest because the development of the story is temporarily stopped

when [a player] enters a conventional practice mode during a story-like game.

It is an object of the present invention to provide an image processing apparatus that comprises a new key  
5 operation instruction system for showing key operations that are easily remembered by a player.

It is another object of the present invention to provide an image processing apparatus wherein, even if the player selects a key operation training scene in a role-  
10 playing game, the player is not stressed out by the story being stopped. Also, it is another object to attain an electronic game apparatus that is provided this image processing apparatus and a storage medium for storing programs that achieve the abovementioned [objects].  
15

#### DISCLOSURE OF THE INVENTION

The present invention is an image processing apparatus comprising image processing means for realizing image  
20 processing operations so that special actions can be provided to a displayed object according to key operations by a player; wherein these image processing means comprise prompt processing means for outputting prompts corresponding to special actions of the abovementioned displayed object to

the abovementioned to image processing means, with these prompts indicating key operations to the player by output means, such as image display means and voice output means. The prompts may be displayed on the screen in the form of  
5 text or images, or output in the form of vocalization separately or along therewith.

When special actions are provided to the displayed object by key operations, those operations are carried out in very different ways depending on whether the player is an expert or beginner and [this difference] influences the progress of the game.

The operation procedures and so forth for key operations corresponding to special actions are included in the manual or so-called hint books, and a beginner must  
5 learn these from the positions of the keys corresponding to the special actions. In the present invention, key operations corresponding to special actions are taught by the prompt processing means in the form of prompts through the output means.

20 In other words, the operation procedure can be acquired in a manner appropriate to the progress of the game by using the prompt format. The player is thereby not stressed out by the story being stopped.

Also, an operating mode of the abovementioned invention

has the abovementioned image processing means including  
recognizing means for recognizing the key operations of the  
abovementioned player and determining means for determining  
whether the key operations by this player match the actions  
5 of the displayed object in the abovementioned prompt  
processing means. A player can thereby confirm whether his  
or her key operations are correct. In other words, the  
proficiency of the learned key operation procedures is  
understood and the special actions that are the strong  
10 points of different players become apparent; as a result,  
the appropriate objectives and scope in the progress of the  
game vary more and can make the game more interesting.

When the results of the determination by the  
abovementioned to determining means [show that] the player's  
15 key operations are not correct, or rather, do not match the  
original key operations, repeat prompt processing means  
display repeat prompts, to repeat the training for key  
operations or provide advice to correct key operations, on  
the display means and the proficiency of the key operations  
20 can be recognized.

Meanwhile, [when the results] do match, the  
abovementioned repeat prompt processing means display  
prompts praising those key operations or prompts affirming  
the key operations on the display means. This can provide



player with a sense of security and a sense of mastery.

The display showing this agreement or not, as well as the relationship between the plurality of keys operated and the operations, may be displayed on a sub-screen. Because of the display on a sub-screen, the player can perform key operations without looking at the manual or hint book even if the player does not learn the correspondence between the keys and the actions. Also, the use of the sub-screen allows the display of the key symbols to be made within the game display screen and can prevent [the player] from losing interest in the game.

Moreover, an operating mode for when the abovementioned type of display is made on the sub-screen may provide the display when there is no match, even when the determination by the determining means is made many times, and without providing the display from the start. In other words, the players may be people who understand without looking at the sub-screen, or people who will never perform well no matter how many times they try.

When the display is provided on a sub-screen from the start, this has the effect of alleviating the differences in level among the abovementioned players and allowing anyone to enjoy playing. However, it is also necessary to let expert players feel sense of mastery at a minimum. In the

beginning, therefore, nothing is displayed on the sub-screen and the operating procedures and so forth are displayed on the sub-screen only for people who do not get a match after several attempts. This can resolve the abovementioned

5 antinomic problem. As another mode of embodying the invention, the mode of the displayed key operations may be output as voice, while the prompts are displayed as an image such as text or pictures, instead of the sub-screen display.

10 When it is necessary to make a plurality of key operations in series, each of those key operations is represented by being shown in a prompt along with the actions of the displayed object, and the player grasps the actions as moving images and understands the key operation procedure. In this case, it becomes possible to provide  
5 training in key operations in the form of the progress of the game.

#### BRIEF DESCRIPTION OF THE DRAWINGS

20 Figure 1 is a perspective view showing the exterior of the game apparatus to which the image processing apparatus relating to the present invention is applied;

Figure 2 is a front view of the controller connected to the game apparatus relating to the present embodiment;

Figure 3 is a front view of the memory card that can be connected to the game apparatus or controller relating to the present embodiment;

Figure 4 is a front view showing the memory card  
5 installed in the controller;

Figure 5 is a conceptual diagram showing the situation wherein the game apparatus relating to the present embodiment is connected to a monitor and a game is under way;

Figure 6 is a control flowchart showing the progress of the game software applied to the present embodiment; and

Figure 7 is a control flowchart showing the practice mode subroutine in the control flowchart in Figure 6.

#### BEST MODE FOR CARRYING OUT THE INVENTION

Figure 1 shows the body of the game apparatus 250 to which the image processing apparatus relating to the present invention is applied.

20 On the top of the game apparatus 250, a round cover 252 that can be opened and closed is established in the center and a power switch 254 and opening and closing switch 256 are established on either side. The cover 252 has a structure such that it can be opened by pressing the opening

and closing switch 256.

When this cover 252 is open, the CD-ROM or the like that is the storage medium for storing the game program can be placed in the game apparatus 250. Moreover, the storage  
5 medium may be another medium such as a DVD. This includes telecommunications media such as a server on the Internet or with PC telecommunications.

Four connectors 258 are established on the front side of the game apparatus 250. The connector 240 of the  
10 controller 220 (see Figure 2) discussed below can be connected to these connectors 258. A maximum of four controllers 220 can be connected.

As shown in Figure 2, the controller 220 that can be connected to the abovementioned connector 258 has a start  
15 button 222 established in the lower central portion of the top operating panel. Also, an analog direction key 224 and digital direction key 226 for indicating the direction are established on the left side of the top operating panel. Furthermore, four command buttons 228A, 228B, 228C, and 228D  
20 are established on the right side of the top operating panel.

Moreover, a left command lever (not shown) is established on the rear operating panel of the handle portion 230L of the controller 220. A right operating lever (not shown) is established on the rear operating panel of

the handle portion 230R.

The start button 222 is a command button with which a single command can be input when it is pressed once. This start button 222 is difficult to press frequently because of its location on the lower central portion of the top operating panel and is mainly used for commands that are not necessary during the game, such as the start game command.

The analog direction key 224 is used for so-called analog directional commands, or continuous directional commands that can indicate the direction to travel in 360°. The digital direction key 226 is used for the so-called digital directional commands, or discrete directional commands in only eight predetermined directions. The analog direction key 224 and digital direction key 226 are established on the left side of the top operating panel and the player normally operates these with his or her left thumb.

The command buttons 228A, 228B, 228C, 228D are command buttons that input a single command when pressed once. These command buttons 228A, 228B, 228C, 228D are established on the right side of the top operating panel and the player normally operates these with his or her right thumb.

The left command lever and right command lever, not shown, can input an indicated amount that is changed

continuously by pulling [the levers] towards the player.

When the player holds the controller 220 in both hands, the left command lever and right command lever are used for a rotary operation by being pulled towards the player by the fingers near the thumbs, such as the index finger or middle finger, and can send the indicated amount that is changed continuously and corresponds to the angle of the rotary operation.

A slot 234 is established on the upper portion of the controller 220, so that a portable game memory card (referred to below as "memory card", see Figure 3) 200 discussed below is loaded [into this slot]. The slot 234 has a two level structure consisting of upper and lower levels and can hold the abovementioned memory card therein (see Figure 4).

A window 236 is formed in the upper portion of the top operating panel of the controller 220. Part of the memory card 200 inserted in the upper side can be seen therethrough.

The connecting cable 238 of the controller 220 projects towards the player from between the right and left handle portions 230L, 230R. A connector 240 for connecting with the connector 258 on the abovementioned game apparatus 250 is established on the end of this connecting cable 238.

As shown in Figure 3, the memory card 200 has a small

LCD (liquid crystal display) 204 established on the upper portion of the surface of the case 202 and operating buttons 206 established below the LCD 204. A directional key 206X and command buttons 206A, 206B, 206C, and 206D are  
5 established as the command buttons 206.

Connectors 210, 212 are established on the top end of the case 200, in other words, above the LCD 204. These are normally hidden by a cover 208. When the memory card 200 is being used independently, the connectors 210, 212 form a  
10 male-female pair. By removing the cover 280, these may be connected to another memory card 200.

Guide grooves 214 are established on both sides of the case 202 of the memory card 200. These allow for smooth insertion into the slots 234 of the controller 220 and the  
15 game apparatus 250. Figure 4 shows [the memory card] inserted into the controller 220. It is recommended that a game relating to the present embodiment be used in this state; the LCD 204 that is exposed through the window 236 is used as the sub-screen.

20 Finger grips 216 are established on both sides of the case 202 of the memory card 200. [A player] can remove the memory card 202 by grasping and pulling the finger grips 216.

Figure 5 shows the game apparatus 250 relating to the present embodiment connected to a home television monitor

280 (referred to as "monitor 280" below).

A scene from the game software stored on the CD-ROM loaded in the game apparatus is displayed on the monitor 280.

In a game to which the present embodiment is applied, a  
5 so-called role-playing game (RPG) and competitive game are  
combined. In such a game, a specific character (protagonist)  
fights with various other characters (competitors) that  
appear as the game progresses along a prescribed story line.  
By winning, the protagonist character acquires advantageous  
10 conditions (for example, life points) and achieves the  
ultimate objective.

This game software includes a so-called practice mode  
(a training mode for key operation procedures for taking  
action when competing with competitor characters). This  
15 practice mode is actuated by the protagonist character  
meeting a practice character incorporated in part of a  
situation from the RPG on the story screen.

In other words, this practice mode can be executed  
under the same conditions as during the game.

20 More specifically, as shown on the abovementioned  
monitor 280, a protagonist character 282 meets the practice  
character 284, and engages in a prescribed dialogue. The  
practice mode is started upon selecting Yes in response to a  
final question as to whether to receive training (Yes/No



display on monitor 282).

In this practice mode, prompts for the practice character 284 are displayed on the monitor 280 (may also be combined with voice output). The procedures for the key operations are explained and the actions of the practice character 284 are shown in these prompts. For example, the prompt in Figure 5 shows "take two steps forward, and give a punch and then a kick!". "Take two steps forward" in this prompt means "press the forward button twice" on the digital direction key 226 as defined in the manual, and "give a punch and then a kick" means "press the punch button (the command on 228A in this case) and then the kick button (command button 228D)" as defined in the manual. The protagonist character 282 can be caused to act by [the player] performing the corresponding operations. According to the actions of this protagonist character 282, it may also be determined to whether [these actions] match the techniques being trained.

If the techniques match, a prompt praising the protagonist character 282 is displayed. If they don't match, a prompt to that effect is displayed, along with a corrective prompt showing what was wrong.

Moreover, because the background image of this practice mode is the same as in the RPG, the player can use the

practice mode with the sense of continuing the RPG.

In the present embodiment, operation procedures for the operating keys in order to make the techniques being trained are also displayed on the LCD 204 of the abovementioned

5 memory card 200. In other words, the contents displayed on this LCD 204 are used as a help screen appropriate for each situation. For this reason, the player can confirm the operating procedures along with the operating keys used at any time, without looking at the manual or hint book.

10 The operation of the present embodiment is explained below using the flow charts in Figures 6 and 7.

Figure 6 shows a control flowchart showing the flow throughout the entire game.

15 In Step 300, it is determined whether the CD-ROM holding the game software explained in the present embodiment is loaded. When the decision is affirmative, [the process] moves to Step 302, and the reading of the data on the CD-ROM begins and the command to display the logo is made.

20 When the logo display ends, [the process] moves from Step 302 to Step 304 and it is determined whether the start button 222 for starting the game has been operated. When the decision in Step 304 is affirmative, [the process] moves to Step 306, the RPG program that is the basis for this game is

read, and then the RPG game is started in Step 308.

Accordingly, the game begins and the player can operate the various operating buttons on the controller 220 and play [the game]. Moreover, when a game in progress up to the present has been stored, this stored information is read at the start of this game and it is possible to restart from the end of the previous play.

While the RPG is progressing, a scene in which the practice character 284 appears and the scene for training special techniques is displayed on the screen.

At this time, the various prompts (for example, the details and effects of the techniques being practiced at this time) for the practice character 284 are output both in voice and on screen and it is asked whether to receive training (Yes/No) (Step 310). At the same time, the text "Yes/No" is displayed on the screen of the monitor 280. The player selects [a response] by turning the analog direction key 224 on the controller 220 to the right or left and decides Yes or No by operating any of the command buttons 228A, 228B, 228C, 228D.

When No, meaning that training is not necessary, is selected, the game will continue and [the process] moves to Step 312.

In Step 312, a scene in which competing characters

appear occurs in the RPG. When these competing characters appear, [the process] moves from Step 312 to Step 314, the competitive game program is read, and then a competitive game starts in Step 316.

5 In this competitive game, the protagonist character actually competes with the competing character. [The player] operates the various operating buttons on the controller 220 and takes action to fight. In accord with this fight, the life power of each is reduced and the first to lose all life power loses.

10 In this type of competition, using special techniques (for example, tornado kicks) besides normal punching and kicking can greatly reduce the abovementioned life power and be an advantage. When the competitive game is decided upon in Step 316, [the process] returns to Step 310.

15 Next, when Yes is selected in Step 310, [the process] moves to Step 318 and the practice mode program is read. Then, the practice mode command is executed in Step 320. This practice mode is explained below using Figure 7.

20 When the practice mode in Step 320 ends or when [the process] returns to Step 312 when No is selected in Step 310, [the process] moves to Step 322 when competing characters are not present and it is determined whether the game is reset or the game is over. In the case of a negative

determination, [the process] returns to Step 310. In the case of an affirmative determination, [the process] moves to Step 324, commands for ending the game are executed, and the processing ends.

5 In other words, while the RPG is progressing normally, Step 310, Step 312, and Step 322 are repeated as a basic loop. When competing characters appear, the competition mode is executed; when practice mode is selected, the practice mode is executed; and finally [the process] returns to the  
10 abovementioned basic loop.

Next, the practice mode command routine is explained using Figure 7.

Upon entering practice mode, the practice character talk to the protagonist character a variety of things(Step  
15 350). Although some of the talks are completely unrelated to the progress of the game, these become very important in increasing the interest of the game.

Also, the operating procedures for special techniques are hidden in these prompts. For example, the following  
20 meaning is hidden in the prompt displayed on the monitor 282 in Figure 5, "Take two steps forward, and give a punch and then a kick".

Specifically, "Take two steps forward" means "Press the forward button twice" on the digital direction key 226 as

defined in the manual. "Give a punch and then a kick" means "Press the punch button (the command button 228A in this case) and immediately press the kick button (command button 228D)" as defined in the manual.

5       The player can read (and listen to) these prompts and cause the protagonist character 282 to take action by performing the operations as instructed (Step 352).

10       In the next Step 354, the actions of the protagonist character 282 are analyzed and then, in Step 356, it is determined whether [these actions] match the techniques in the training.

15       If a match results from the determination in Step 356, [the process] moves to Step 358 and prompts praising the protagonist character 282 are displayed. Next, a decision as to whether to continue in practice mode is prompted in Step 360 and when [practice mode] is to continue, and [the process] returns to Step 350. When [practice mode] is not to continue, [the process] returns to the routine in Figure 6.

20       Meanwhile, when [the techniques] are found to not match in Step 356, [the process] goes from Step 356 to Step 362 and a prompt to the effect that [the techniques] were not good is displayed along with a corrective prompt indicating the problems. Next, a decision as to whether to continue in practice mode is prompted in Step 364 and when [practice

mode] is to continue, [the process] returns to Step 352.

When [practice mode] is not to continue, [the process] returns to the routine in Figure 6.

In this way, practice mode can be executed on a level equivalent to the situations [of the RPG] as the RPG is in progress. Also, the background images in practice mode are the same as in the RPG, therefore the player can engage in the practice mode with the sense that the RPG is continuing.

In this way, in the present embodiment, the practice mode for the game software, that is prepared as a combination of an RPG program and a competitive game program, can be inserted into the abovementioned RPG program without giving [the player] a sense of boredom. Because the distinction between the practice mode [and the game] is eliminated, the player is not given the sense that the progress of the game is being interrupted and the problem of [the player] losing interest can be resolved.

Also, because of the new training system provided on a screen according to the invention, those special techniques, that are difficult to remember and had to be learned with reference to a hint book, can be easily remembered, and [the player] is allowed to focus on the progress of the game and can have increased interest in the game.

Moreover, in the present embodiment, training for key

operations to use techniques was performed using prompts displayed on the monitor 282, but the key operations and procedures may also be displayed on the LCD 204 of the memory card 200.

5       The display on this LCD 204 may be carried out either immediately upon entering practice mode, or after a determination of "no good" has been made a predetermined number of times. If the training instructions are displayed on the LCD from the beginning, some players who want to  
10   enjoy the training based on the actions on the monitor 280 but are tempted to glance down at the LCD 204, will lose their interest. Therefore, no display is provided on the LCD 204 for the beginning. However, some of the non-expert or unskilled players can mistake the relationship between the  
15   action on the screen and the key operations and may not improve no matter how many tries they make. This may hinder the progress of the game and cause the player to lose interest. Therefore, the key operation procedures and so forth are displayed on the LCD 200 for only players who  
20   continue to show no improvement and the players can therefore enjoy the game regardless of whether they are expert or non-expert, skillful or unskilled.

Moreover, as a further mode of displaying on the LCD 204, the training instructions may be displayed on the LCD



204 according to the life points or the like of the  
protagonist character. For example, when [the protagonist]  
has many life points, the game will not end even when [the  
protagonist] fights with competing characters one or two  
5 times. Therefore, training is made difficult (no display on  
the LCD 204). Meanwhile, when [the protagonist] has few life  
points, training is made easy (display on the LCD 204)  
because the game may end even with one fight with a  
competing character. Furthermore, [the display mode] may be  
10 a preset default mode.

#### INDUSTRIAL APPLICABILITY

As explained above, the present invention is a novel  
15 system for training key operations, by which a player can  
learn the key operations easily. [It is an effect of this  
invention] that the player is not stressed out by the story  
of the role-playing game being stopped even when the player  
selects a scene for training key operations.

## CLAIMS

1. An image processing apparatus comprising image processing means for realizing image processing actions to  
5 make it possible to provide special actions to a displayed object according to a player's key operations;

wherein these image processing means comprise prompt processing means for outputting prompts corresponding to special actions of said displayed object; and

10 these prompts relate to the actions of said displayed object in order to suggest key operations to the player by output means.

2. The image processing apparatus, according to Claim 1, wherein said image processing means further comprise:

15 recognition means for recognizing key operations by said player; and

determining means for determining whether the key operations by the player match the actions of the displayed  
20 object according to said prompt processing means.

3. The image processing apparatus, according to Claim 2, further comprising repeat prompt processing means for outputting repeat prompts such as corrective advice,

corresponding to said special actions, to said output means in the case where there is no match in the results of the determination by said determining means.

5           4.    The image processing apparatus, according to any of Claims 1 through 3, wherein said image processing means display symbols for a plurality of keys to be operated on a sub-screen, according to the results of the determination of a match by said determining means.

10           5.    The image processing apparatus, according to Claim 4, wherein said sub-screen display is executed in the case when a match is not affirmed even when said match determination is made for a plurality of times.

15           6.    The image processing apparatus, according to any of Claims 1 through 5, wherein, when a series of operations is necessary for the key operations to realize special actions by said displayed object, each of those key  
20 operations is output in a prompt while being shown by the actions of the displayed object.

7.    An electronic game apparatus comprising the image processing apparatus according to any of Claims 1 through 6.

8. A video game storage medium wherein is stored a program for executing the image processing means according to any of Claims 1 through 6.

## ABSTRACT

A practice mode can be inserted into an RPG program without giving [the player] a sense of boredom. Because the distinction between the practice mode [and the game] is eliminated, the player is not given the sense that the progress of the game is being interrupted and the problem of [the player] losing interest can be resolved. Also, because of the construction of a new training system wherein training for special moves, that are difficult to remember, is easily stored on screen, [the player] can focus on the progress of the game and can have increased interest in the game.



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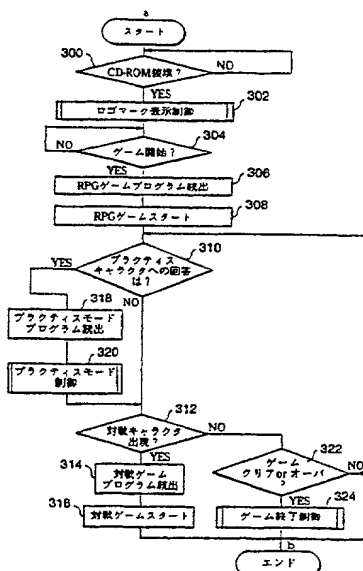
(81) 指定国 CN, KR, US, 欧州特許 (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE)

添付公開書類

国際調査報告書

(54) Title: IMAGE PROCESSING DEVICE, ELECTRONIC PLAYING DEVICE, AND STORAGE MEDIUM FOR TV GAME MACHINE

(54) 発明の名称 画像処理装置、電子遊戯装置及びテレビゲーム機用記憶媒体

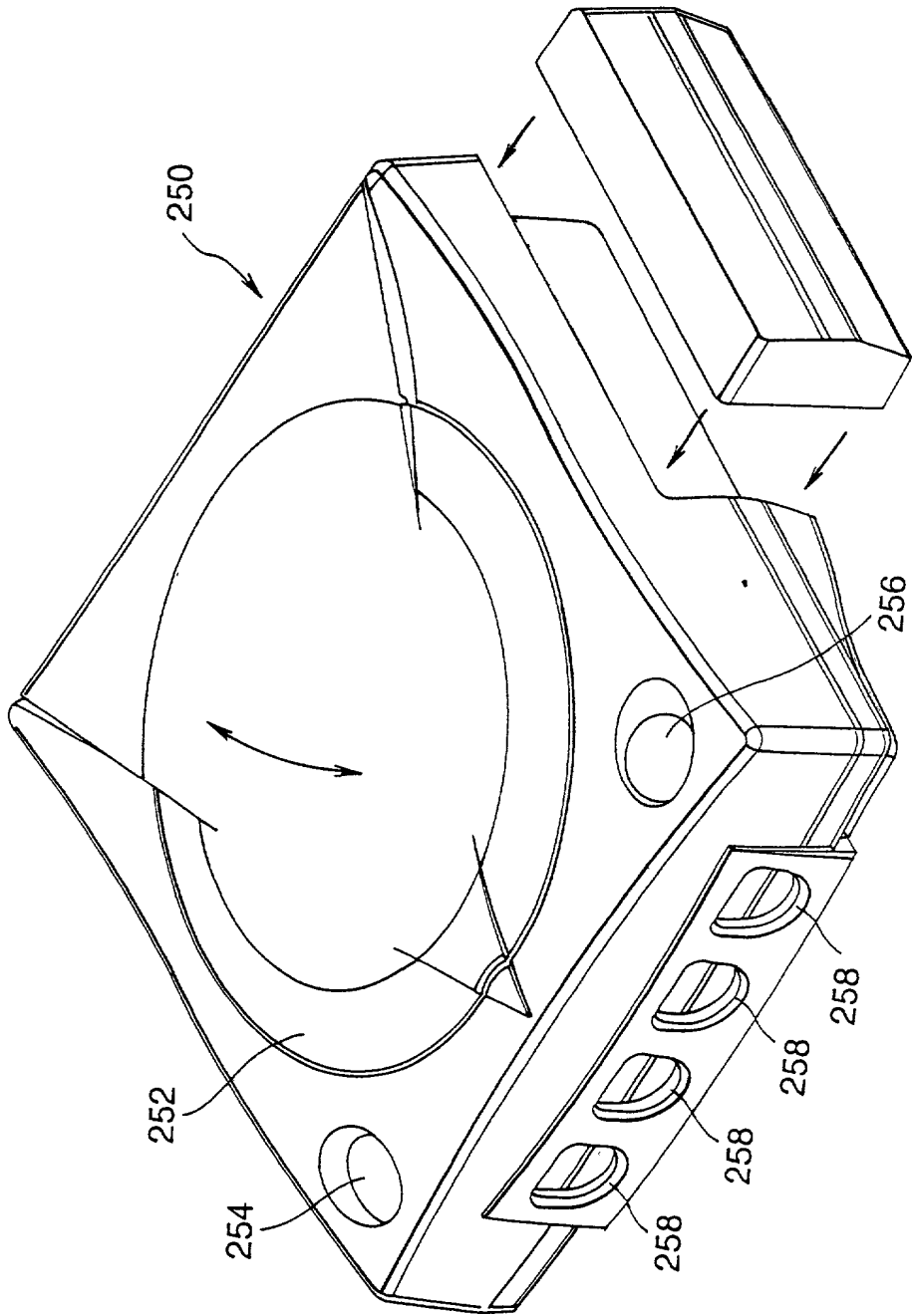


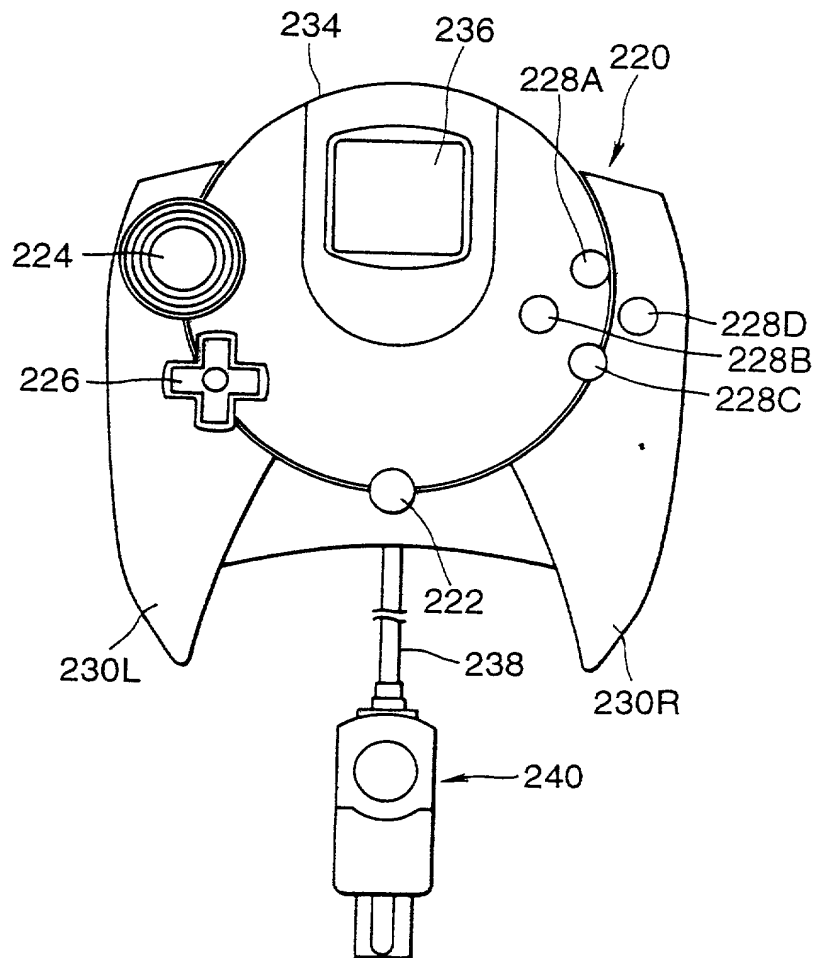
a...START  
300...CD-ROM LOADED?  
302...LOGO DISPLAY CONTROL  
304...GAME STARTED?  
306...READ RPG GAME PROGRAM  
308...START RPG GAME  
310...ANY REPLY TO PRACTICE CHARACTER?  
312...OPPONENT CHARACTER APPEARED?  
314...READ COMPETITIVE GAME PROGRAM  
316...START COMPETITIVE GAME  
318...READ PRACTICE MODE PROGRAM  
320...PRACTICE MODE CONTROL  
322...GAME CLEARED OR OVER?  
324...GAME ENDING CONTROL  
b...END

## (57) Abstract

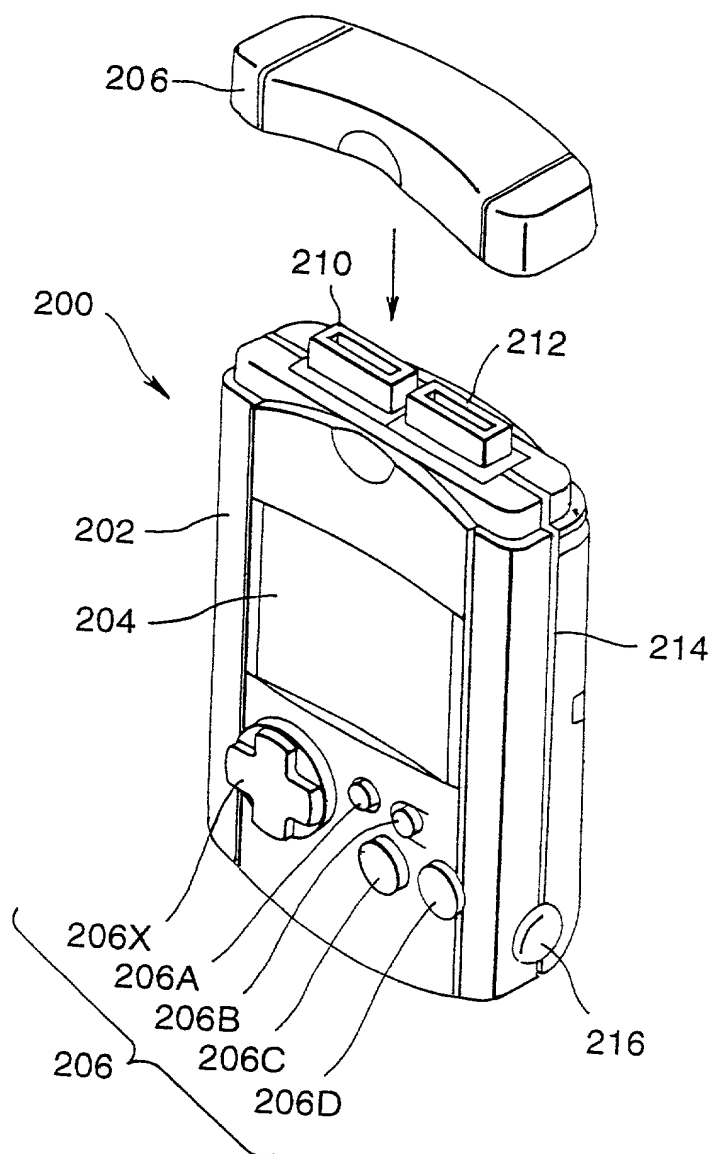
A practice mode can be inserted without imparting any feeling of strangeness into an RPG game program to eliminate the difference of the practice mode. Therefore the player does not feel interruption of the game progress and accordingly does not lose the fun. A novel system is constructed so as to teach easily a special skill which has been hard to learn conventionally, so that the player can concentrate himself on the game and can have more fun from the game.

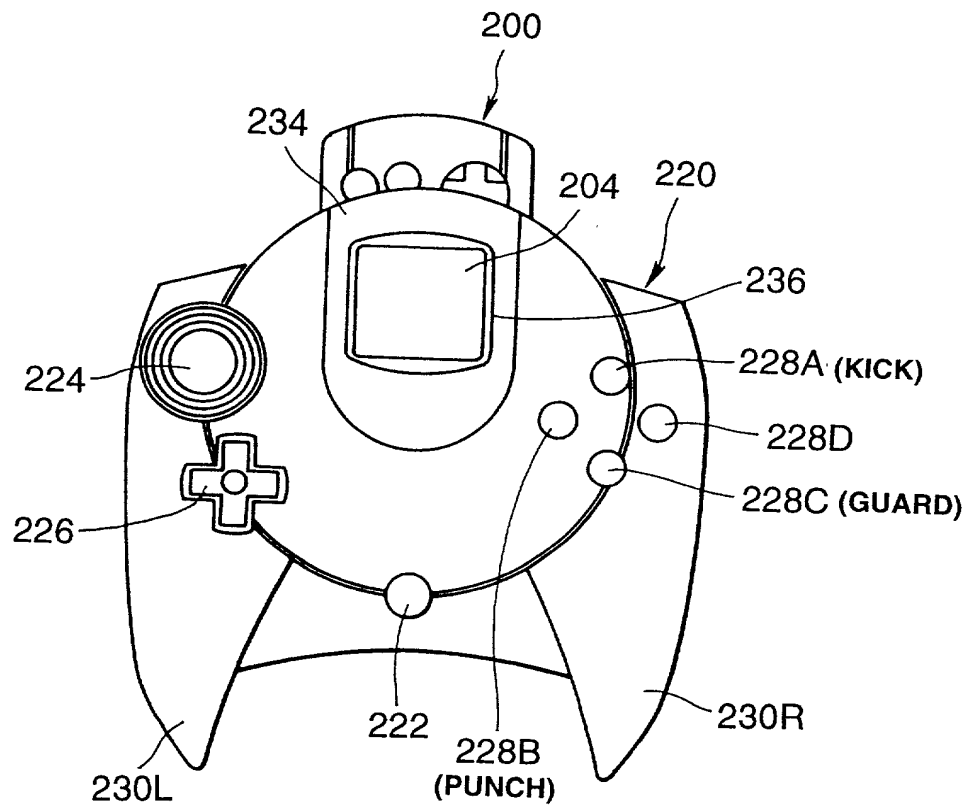
FIG. 1



**FIG. 2**



**FIG. 3**

**FIG.4**

**FIG.5**

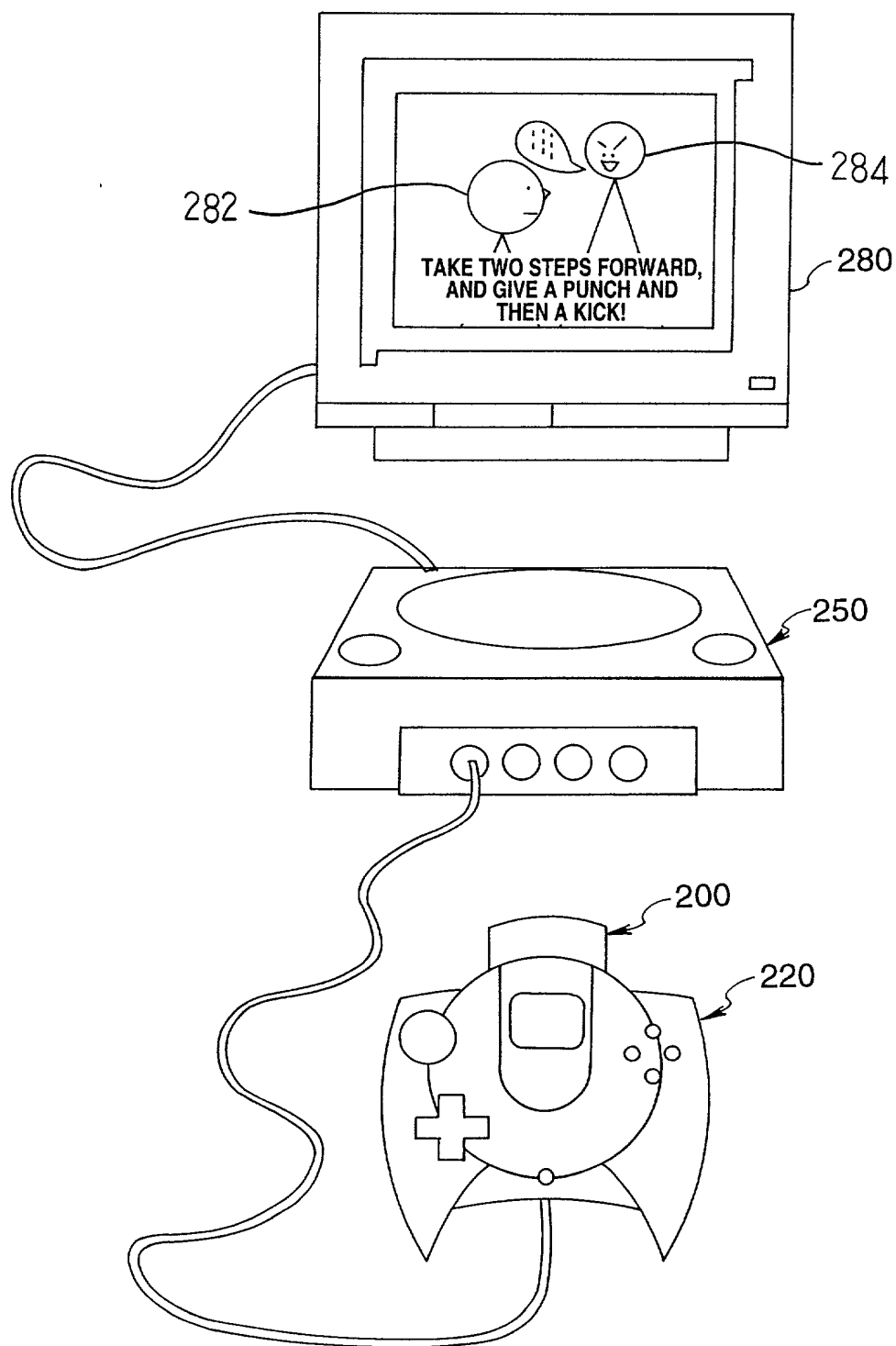


FIG. 6

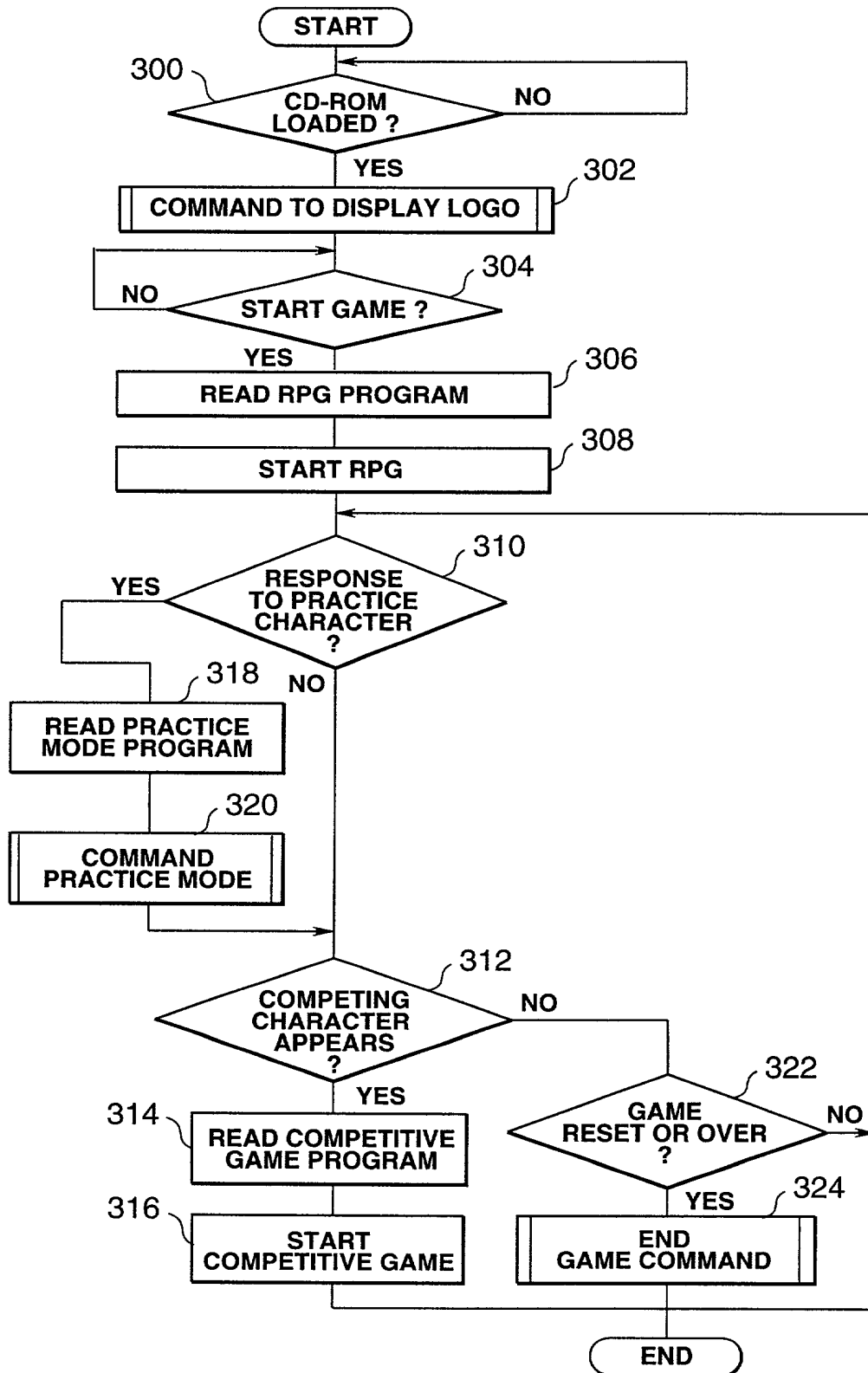
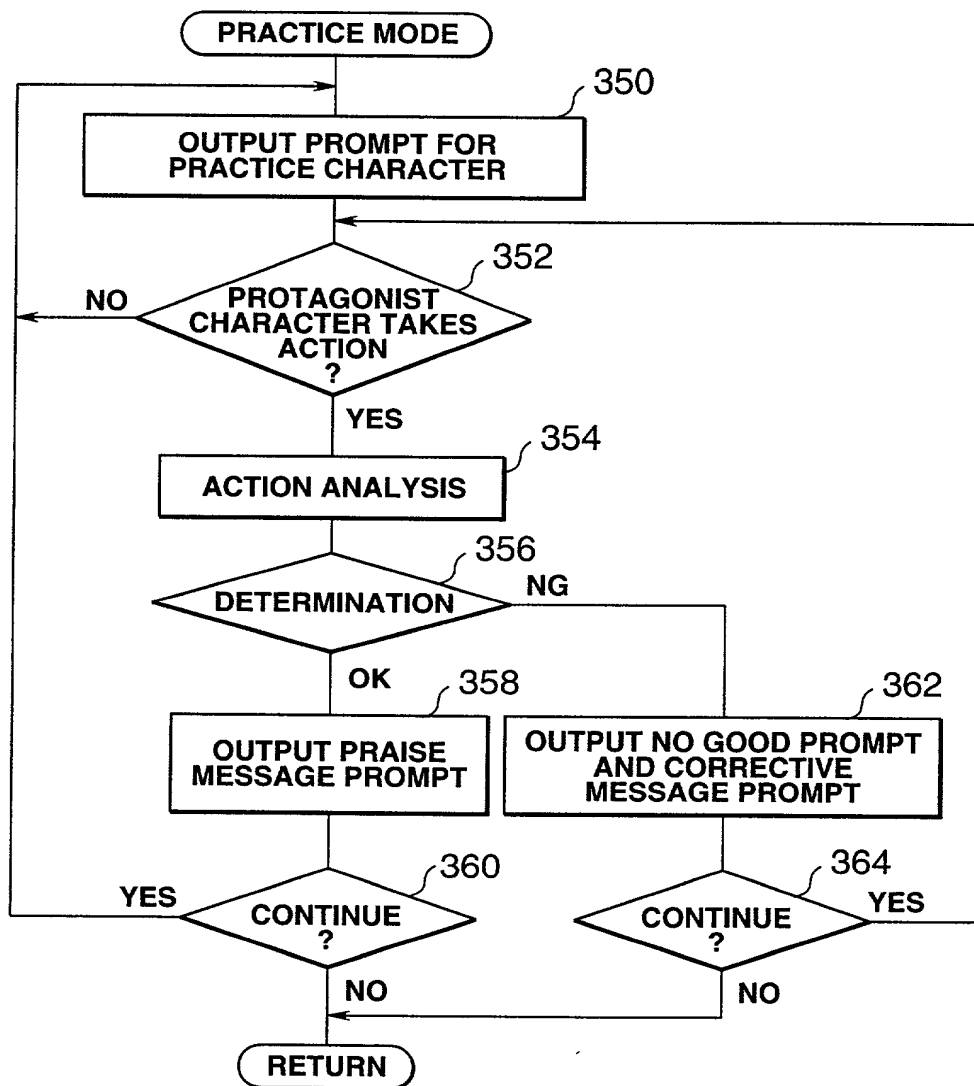


FIG.7



# Japanese Language Declaration

## 日本語宣言書

委任状：下記の発明者として、私は本出願の手続きを遂行し、同出願に関連する特許商標庁との一切の取引を取り扱うため、以下の弁護士及び（または）代理人をここに指名致します。（弁護士、代理人の氏名及び登録番号を明記のこと）

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith (list name and registration number)

As listed on the attached sheet

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第二発明者の署名 <u>宮串 英明</u> MAR. - 8. 2001	Second inventor's signature <u>Hideaki Miyagushi</u> MAR. - 8. 2001
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Page 3 of 4

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# Declaration and Power of Attorney For Patent Application

## 特許出願宣言書及び委任状

### Japanese Language Declaration

### 日本語宣言書

下記の氏名の発明者として、私は以下の通り宣言します。 As a below named inventor, I hereby declare that:  
私の住所、私書箱、国籍は下記の私の氏名の後に記載された My residence, post office address and citizenship are as stated below  
通りです。 next to my name,

下記の名称の発明に関して請求範囲に記載され、特許出願し I believe I am the original, first and sole inventor (if only one name is  
ている発明内容について、私が最初かつ唯一の発明者 (下記 listed below) or an original, first and joint inventor (if plural names are  
の氏名が一つの場合) もしくは最初かつ共同発明者であると listed below) of the subject matter which is claimed and for which a  
(下記の名称が複数の場合) 信じています。 patent is sought on the invention entitled

画像処理装置、電子遊戯装置及びテレビゲーム機用記録媒体 IMAGE PROCESSING APPARATUS, ELECTRONIC GAME  
APPARATUS, AND STORAGE MEDIUM FOR A VIDEO GAME  
DEVICE

上記発明の明細書 (下記の欄で×印が付いていない場合は、 the specification of which is attached hereto unless the following box is  
本書に添付) は、 checked:

☒ 2000年8月17日(PCT), 2000年11月16日(US) に提出 ☒ was filed on March 17, 2000(PCT) November 16, 2000(US) as  
され、米国出願番号または特許協定条約国際出願番号 United States Application Number or PCT International Application  
PCT/JP00/01668, 09/700,545 とし、(該当する場合) Number PCT/JP00/01668, 09/700,545 and was amended on \_\_\_\_\_  
日に訂正されました。 (if applicable).

私は、特許請求範囲を含む上記訂正後の明細書を検討し、 I hereby state I have reviewed and understand the contents of the  
同内容を理解していることをここに表明します。 above identified specification, including the claims, as amended by any  
amendment referred to above.

私は、第37編連邦規則法典第1章56条に定義されると I acknowledge the duty to disclose information which is material to  
おり、特許資格の有無について重大な意味を持つ情報を開示 patentability as defined in Title 37, Code of Federal Regulations,  
する義務があることを認めます。 § 1.56.



# Japanese Language Declaration

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I hereby claim foreign priority under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for a patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

### 過去の外国における出願

### 優先権の主張

11-73326 (Number) (番号)	Japan (Country) (国名)	18TH/March/1999 (Day/Month/Year Filed) (出願年月日)	<input checked="" type="checkbox"/> Yes はい	<input type="checkbox"/> No いいえ
(Number) (番号)	(Country) (国名)	(Day/Month/Year Filed) (出願年月日)	<input type="checkbox"/> Yes はい	<input type="checkbox"/> No いいえ
(Number) (番号)	(Country) (国名)	(Day/Month/Year Filed) (出願年月日)	<input type="checkbox"/> Yes はい	<input type="checkbox"/> No いいえ

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I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

(Application Serial No) (出願番号)	(Filing Date) (出願日)	(現況) (特許許可済み、係属中、放棄済み)	(Status) (Patented, Pending, Abandoned)
(Application Serial No) (出願番号)	(Filing Date) (出願日)	(現況) (特許許可済み、係属中、放棄済み)	(Status) (Patented, Pending, Abandoned)

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